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\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	MAY 01	New CAS web site launched
NEWS	3	MAY 08	CA/CAPLUS Indian patent publication number format defined
NEWS	4	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS	5	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS	6	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS	7	MAY 21	CA/CAPLUS enhanced with additional kind codes for German patents
NEWS	8	MAY 22	CA/CAPLUS enhanced with IPC reclassification in Japanese patents
NEWS	9	JUN 27	CA/CAPLUS enhanced with pre-1967 CAS Registry Numbers
NEWS	10	JUN 29	STN Viewer now available
NEWS	11	JUN 29	STN Express, Version 8.2, now available
NEWS	12	JUL 02	LEMBASE coverage updated
NEWS	13	JUL 02	LMEDLINE coverage updated
NEWS	14	JUL 02	SCISEARCH enhanced with complete author names
NEWS	15	JUL 02	CHEMCATS accession numbers revised
NEWS	16	JUL 02	CA/CAPLUS enhanced with utility model patents from China
NEWS	17	JUL 16	CAPLUS enhanced with French and German abstracts
NEWS	18	JUL 18	CA/CAPLUS patent coverage enhanced
NEWS	19	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS	20	JUL 30	USGENE now available on STN
NEWS	21	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	22	AUG 06	BEILSTEIN updated with new compounds
NEWS	23	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	24	AUG 13	CA/CAPLUS enhanced with additional kind codes for granted patents
NEWS	25	AUG 20	CA/CAPLUS enhanced with CAS indexing in pre-1907 records
NEWS EXPRESS	29	JUNE 2007:	CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS LOGIN			Welcome Banner and News Items
NEWS IPC8			For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 10:25:45 ON 22 AUG 2007

=> file registry  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 10:25:57 ON 22 AUG 2007  
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STRUCTURE FILE UPDATES: 21 AUG 2007 HIGHEST RN 945293-25-4  
DICTIONARY FILE UPDATES: 21 AUG 2007 HIGHEST RN 945293-25-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

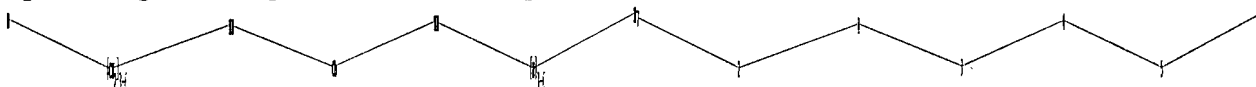
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>  
Uploading C:\Program Files\Stnexp\Queries\10091591.str

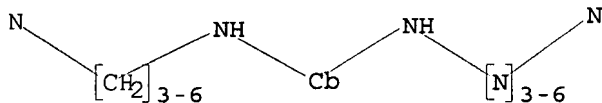


chain nodes :  
1 2 3 4 5 6 7  
chain bonds :  
1-2 1-3 2-7 3-4 4-5 5-6  
exact/norm bonds :  
4-5 5-6  
exact bonds :  
1-2 1-3 2-7 3-4

Match level :  
1:CLASS 2:CLASS 3:Atom 4:CLASS 5:CLASS 6:CLASS 7:CLASS

L1 STRUCTURE UPLOADED

=> d l1  
L1 HAS NO ANSWERS  
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 10:26:12 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 25 TO ITERATE

100.0% PROCESSED 25 ITERATIONS

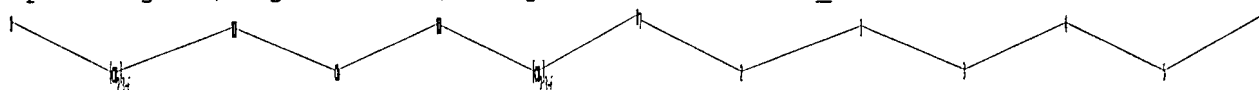
0 ANSWERS

SEARCH TIME: 00.00.01

L2 0 SEA SSS FUL L1

=>

Uploading C:\Program Files\Stnexp\Queries\10091591\_new.str



chain nodes :

1 2 3 4 5 6 7

chain bonds :

1-2 1-3 2-7 3-4 4-5 5-6

exact bonds :

1-2 1-3 2-7 3-4 4-5 5-6

Match level :

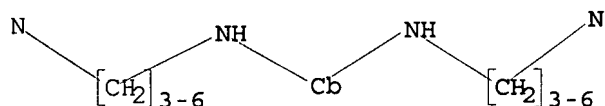
1:CLASS 2:CLASS 3:Atom 4:CLASS 5:CLASS 6:CLASS 7:CLASS

L3 STRUCTURE UPLOADED

=> d l3

L3 HAS NO ANSWERS

L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l3 full

FULL SEARCH INITIATED 10:27:34 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1805821 TO ITERATE

41.9% PROCESSED 756162 ITERATIONS

159 ANSWERS

53.4% PROCESSED 963657 ITERATIONS

177 ANSWERS

54.9% PROCESSED 990673 ITERATIONS

177 ANSWERS

55.4% PROCESSED 1000000 ITERATIONS

177 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.51

FULL FILE PROJECTIONS: ONLINE \*\*INCOMPLETE\*\*

BATCH \*\*INCOMPLETE\*\*  
PROJECTED ITERATIONS: 1805821 TO 1805821  
PROJECTED ANSWERS: 266 TO 372

L4 177 SEA SSS FUL L3

=> file medline caplus wpids uspatfull  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
345.55	345.76

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 10:28:46 ON 22 AUG 2007

FILE 'CAPLUS' ENTERED AT 10:28:46 ON 22 AUG 2007  
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COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'WPIDS' ENTERED AT 10:28:46 ON 22 AUG 2007  
COPYRIGHT (C) 2007 THE THOMSON CORPORATION

FILE 'USPATFULL' ENTERED AT 10:28:46 ON 22 AUG 2007  
CA INDEXING COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

=> s l4  
SAMPLE SEARCH INITIATED 10:28:51 FILE 'WPIDS'  
SAMPLE SCREEN SEARCH COMPLETED - 10187 TO ITERATE

9.8% PROCESSED 1000 ITERATIONS 0 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.06

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 98997 TO 104743  
PROJECTED ANSWERS: 0 TO 0

L5 52 L4

=> s l5 not py>2003  
L6 14 L5 NOT PY>2003

=> d l6 1-14 ibib, abs, hitstr

L6 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2003:655735 CAPLUS  
DOCUMENT NUMBER: 140:122227  
TITLE: Alchemix: A novel alkylating anthraquinone with potent  
activity against anthracycline- and  
cisplatin-resistant ovarian cancer  
AUTHOR(S): Pors, Klaus; Paniwnyk, Zennia; Teesdale-Spittle, Paul;  
Plumb, Jane A.; Willmore, Elaine; Austin, Caroline A.;  
Patterson, Laurence H.  
CORPORATE SOURCE: Department of Pharmaceutical and Biological Chemistry,  
The School of Pharmacy, University of London, London,  
WC1N 1AX, UK  
SOURCE: Molecular Cancer Therapeutics (2003), 2(7), 607-610  
CODEN: MCTOCF; ISSN: 1535-7163  
PUBLISHER: American Association for Cancer Research  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB Chloroethylaminoanthraquinones are described with intercalating and  
alkylating capacity that potentially covalently cross-link topoisomerase  
II (topo II) to DNA. These compds. have potent cytotoxic activity (IC50 =  
0.9-7.6 nM) against the A2780 human ovarian carcinoma cell line.

Hydroxyethylaminoanthraquinones also reported in this paper have similar IC50 values (0.7-1.7 nM) in the same cell line. Alchemix (ZP281M, 1-{2-[N,N-bis(2-chloroethyl)amino]ethylamino}-4-{2-[N,N-(dimethyl)amino]ethylamino}-5,8-dihydroxy-9,10-anthracenedione), an alkylating anthraquinone, retains excellent antitumor activity in Adriamycin-resistant (2780AD) and cisplatin-resistant (2780/cp70) cell lines in vitro and in vivo. This indicates that Alchemix can evade both P-glycoprotein efflux pump and DNA mismatch repair-mediated resistance. In treated cells, Alchemix was shown to preferentially induce drug-stabilized covalent bound topo II $\alpha$ -DNA complexes over topo II $\beta$ -DNA complexes.

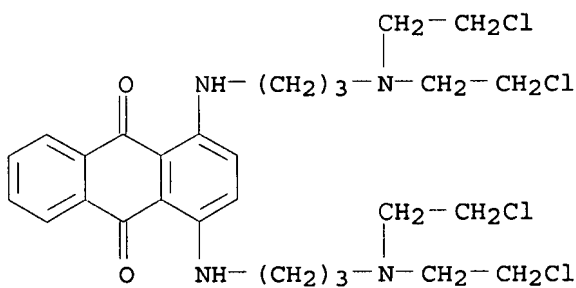
IT 648903-53-1, ZP 289M

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(antitumor and topoisomerase activity of alkylating anthraquinones with potent activity against anthracycline- and cisplatin-resistant ovarian cancer)

RN 648903-53-1 CAPLUS

CN 9,10-Anthracenedione, 1,4-bis[[3-[bis(2-chloroethyl)amino]propyl]amino]-(9CI) (CA INDEX NAME)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:616793 CAPLUS

DOCUMENT NUMBER: 139:358088

TITLE: Antiplasmodial activity of a series of 1,3,5-triazine-substituted polyamines

AUTHOR(S): Klenke, Burkhard; Barrett, Michael P.; Brun, Reto; Gilbert, Ian H.

CORPORATE SOURCE: Welsh School of Pharmacy, Redwood Building, Cardiff University, Cardiff, CF10 3XF, UK

SOURCE: Journal of Antimicrobial Chemotherapy (2003), 52(2), 290-293

CODEN: JACHDX; ISSN: 0305-7453

PUBLISHER: Oxford University Press

DOCUMENT TYPE: Journal

LANGUAGE: English

GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Polyamine biosynthesis and function has been shown to be a good drug target in some parasitic protozoa and it is proposed that the pathway might also represent a target in the malaria parasite Plasmodium falciparum. A series of 1,3,5-triazine-substituted polyamine analogs, e.g. I, II, III, and IV, were tested for activity against Plasmodium falciparum in vitro. The series showed activity against the parasites and

were generally more active against the chloroquine-resistant line K1 than the chloroquine-susceptible line NF54. Simple unbranched analogs had better activity than analogs carrying branched or cyclic central chains. Addition of multiple triazine units in general led to increased activity of the compds.

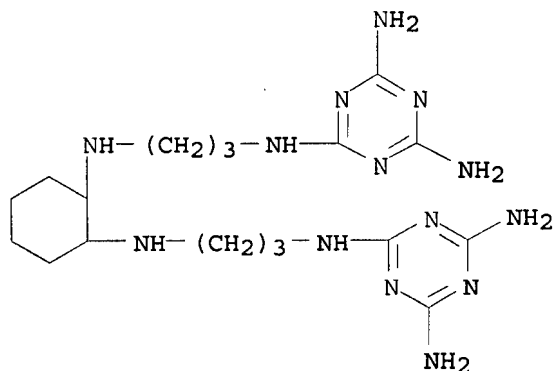
IT 374673-91-3 374673-92-4

RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(antiplasmodial activity of a series of triazine-substituted polyamines)

RN 374673-91-3 CAPLUS

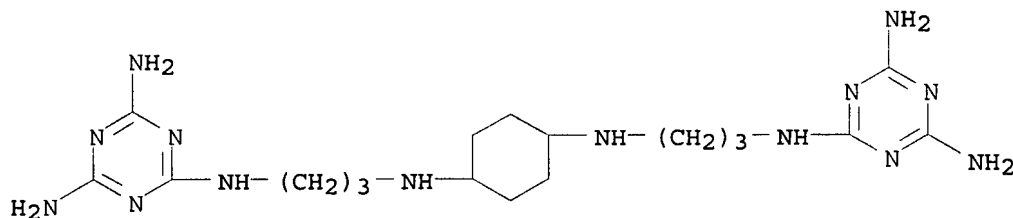
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-[1,2-cyclohexanediylbis(imino-3,1-propanediyl)]bis-, tetrahydrochloride (9CI) (CA INDEX NAME)



● 4 HCl

RN 374673-92-4 CAPLUS

CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-[1,4-cyclohexanediylbis(imino-3,1-propanediyl)]bis-, tetrahydrochloride (9CI) (CA INDEX NAME)



● 4 HCl

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:345377 CAPLUS

DOCUMENT NUMBER: 139:82313

TITLE: Preparation and biological assessment of hydroxycinnamic acid amides of polyamines

AUTHOR(S): Fixon-Owoo, Solomon; Levasseur, Frederic; Williams, Keith; Sabado, Thomas N.; Lowe, Mike; Klose, Markus; Joffre Mercier, A.; Fields, Paul; Atkinson, Jeffrey

CORPORATE SOURCE: Department of Chemistry, Brock University,

SOURCE: St.Catharines, ON, L2S3A1, Can.  
 Phytochemistry (Elsevier) (2003), 63(3), 315-334  
 CODEN: PYTCAS; ISSN: 0031-9422  
 PUBLISHER: Elsevier Science Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 139:82313

AB Many plants contain hydroxycinnamic acid conjugates of polyamines that are similar in structure to the acylated polyamines found in spider and wasp toxins. In an effort to determine whether these compds. might play a role in the chemical defense of plants against arthropod pests we synthesized a variety of analogs of the coumaric (4-hydroxycinnamic) acid conjugates of di-, tri-, and tetraamines using common protection and acylation strategies. N1- and N8-coumaroyl spermidine were tested in feeding trials with insect larvae including the European corn borer (*Ostrinia nubilalis*), the tobacco budworm (*Heliothis virescens*) and the oblique banded leaf roller (*Choristoneura rosaceana*). Antifeedant assays with the rice weevil *Sitophilus oryzae* were also performed. Neither the naturally occurring coumaric acid conjugates of polyamines nor their analogs showed notable toxicity towards insects, despite precautions to maintain these easily oxidized materials in the wet diet. However, more direct bioassays of these compds. on glutamate-dependent neuroreceptors including the deep abdominal extensor muscles of crayfish, or mammalian NMDA,  $\delta 2$ , and AMPA receptors, showed that these compds. were inhibitory. N1-Coumaroyl spermine, a dodecyl and a cyclohexyl analog were especially active at NMDA NR1/NR2B receptors. The latter had an IC50 of 300  $\mu$ M in the crayfish. N1-Coumaroyl spermine had an IC50 in the crayfish preparation of 70-300  $\mu$ M and against the mammalian NR1/NR2B receptor of 38 nM. Structure-activity variations show similar trends of length and hydrophobicity as has been seen previously with analogs of spider toxins. While the coumaric acid polyamine conjugates are active when directly applied to neuroreceptors, they show no overt toxicity when ingested by insect larvae.

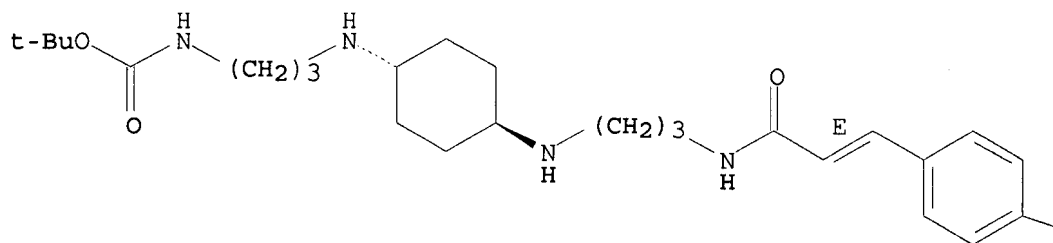
IT 556824-25-0P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (inhibitory activity on crayfish and mammalian glutamate-dependent neuroreceptors)

RN 556824-25-0 CAPLUS

CN Carbamic acid, [3-[[[trans-4-[[3-[[[(2E)-3-[4-(acetyloxy)phenyl]-1-oxo-2-propenyl]amino]propyl]amino]cyclohexyl]amino]propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.  
 Double bond geometry as shown.

PAGE 1-A



—OAc

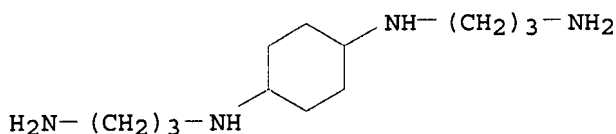
IT 484670-29-3P 556065-79-3P 556065-82-8P  
556065-84-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(intermediate in preparation of hydroxycinnamic acid amides of polyamines  
with inhibitory activity on crayfish and mammalian glutamate-dependent  
neuroreceptors)

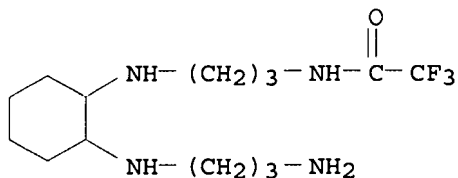
RN 484670-29-3 CAPLUS

CN 1,4-Cyclohexanediamine, N,N'-bis(3-aminopropyl)- (9CI) (CA INDEX NAME)



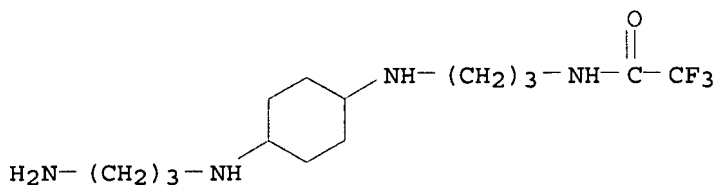
RN 556065-79-3 CAPLUS

CN Acetamide, N-[3-[[2-[(3-aminopropyl)amino]cyclohexyl]amino]propyl]-2,2,2-  
trifluoro- (9CI) (CA INDEX NAME)



RN 556065-82-8 CAPLUS

CN Acetamide, N-[3-[[4-[(3-aminopropyl)amino]cyclohexyl]amino]propyl]-2,2,2-  
trifluoro- (9CI) (CA INDEX NAME)

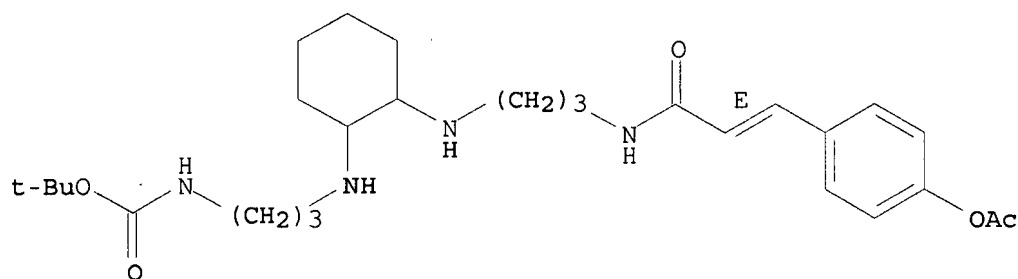


RN 556065-84-0 CAPLUS

CN Carbamic acid, [3-[[2-[[3-[[[(2E)-3-[4-(acetyloxy)phenyl]-1-oxo-2-  
propenyl]amino]propyl]amino]cyclohexyl]amino]propyl]-, 1,1-dimethylethyl  
ester (9CI) (CA INDEX NAME)

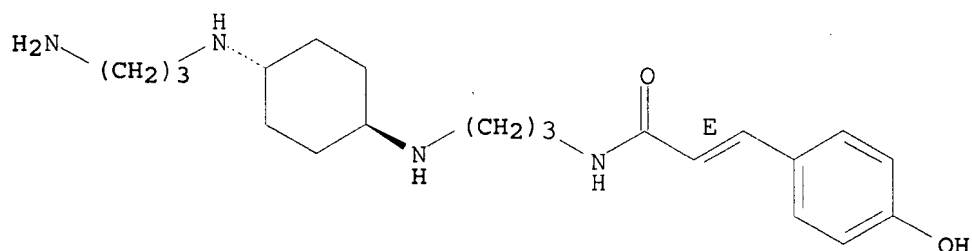
Double bond geometry as shown.





IT 556824-24-9P  
 RL: BCP (Biochemical process); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)  
 (preparation and inhibitory activity on crayfish and mammalian glutamate-dependent neuroreceptors)  
 RN 556824-24-9 CAPLUS  
 CN 2-Propenamide, N-[3-[[trans-4-[(3-aminopropyl)amino]cyclohexyl]amino]propyl]-3-(4-hydroxyphenyl)-, trihydrochloride, (2E)-(9CI) (CA INDEX NAME)

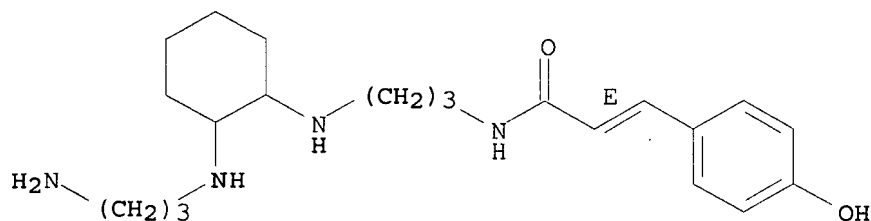
Relative stereochemistry.  
 Double bond geometry as shown.



● 3 HCl

IT 556065-78-2  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 . (preparation and inhibitory activity on crayfish and mammalian glutamate-dependent neuroreceptors)  
 RN 556065-78-2 CAPLUS  
 CN 2-Propenamide, N-[3-[[2-[(3-aminopropyl)amino]cyclohexyl]amino]propyl]-3-(4-hydroxyphenyl)-, (2E)-(9CI) (CA INDEX NAME)

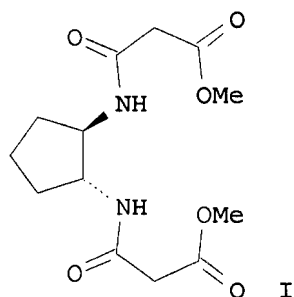
Double bond geometry as shown.



REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

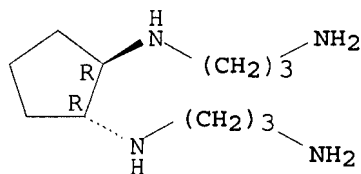
L6 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:772409 CAPLUS

DOCUMENT NUMBER: 138:24484  
 TITLE: Biocatalytic Approaches toward the Synthesis of Both Enantiomers of trans-Cyclopentane-1,2-diamine  
 AUTHOR(S): Luna, Amparo; Alfonso, Ignacio; Gotor, Vicente  
 CORPORATE SOURCE: Departamento de Quimica Organica e Inorganica Facultad de Quimica, Universidad de Oviedo, Oviedo, 33071, Spain  
 SOURCE: Organic Letters (2002), 4(21), 3627-3629  
 CODEN: ORLEF7; ISSN: 1523-7060  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 138:24484  
 GI



AB A lipase-catalyzed double monoaminolysis of di-Me malonate by (+)-trans-cyclopentane-1,2-diamine allowed the sequential resolution of the latter compound, affording an enantiopure bis(amidoester) I, which was subsequently transformed into an optically active polyamine. As an alternative, both enantiomers of the diamine were obtained from enantiopure (+)- or (-)-2-aminocyclopentanol, prepared by enzymic resolution  
 IT 477873-37-3P  
 RL: BPN (Biosynthetic preparation); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation of both enantiomers of trans-cyclopentanediamine via lipase-catalyzed acylation with malonates or from enantiopure aminocyclopentanol)  
 RN 477873-37-3 CAPLUS  
 CN 1,2-Cyclopentanediamine, N,N'-bis(3-aminopropyl)-, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:591702 CAPLUS  
 DOCUMENT NUMBER: 137:156426  
 TITLE: Cyanoethylation process and acid catalysts for the manufacture of polynitriles from cycloaliphatic vicinal primary diamines

INVENTOR(S): Burdeniuc, Juan Jesus  
 PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., USA  
 SOURCE: Eur. Pat. Appl., 13 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1229021	A1	20020807	EP 2002-1181	20020129
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 6433212	B1	20020813	US 2001-774343	20010131
BR 2002000266	A	20021015	BR 2002-266	20020125
JP 2002226450	A	20020814	JP 2002-21288	20020130
US 2002156315	A1	20021024	US 2002-123929	20020417
US 6472553	B2	20021029		

PRIORITY APPLN. INFO.: US 2001-774343 A 20010131

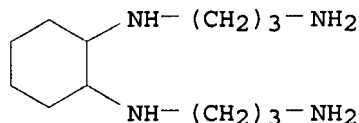
OTHER SOURCE(S): MARPAT 137:156426

AB Polynitriles are prepared from cycloaliph. vicinal primary diamines by reacting them with acrylonitrile in the presence of water and a catalytic amount of an acid catalyst having a pKa of -3.0 to +7.5 (e.g., acetic acid).

IT 445270-40-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of)

RN 445270-40-6 CAPLUS

CN 1,2-Cyclohexanediamine, N,N'-bis(3-aminopropyl)-C-methyl- (9CI) (CA INDEX NAME)



D1-Me

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:680366 CAPLUS

DOCUMENT NUMBER: 135:366327

TITLE: Synthesis and Biological Evaluation of s-Triazine Substituted Polyamines as Potential New Anti-Trypanosomal Drugs

AUTHOR(S): Klenke, Burkhard; Stewart, Mhairi; Barrett, Michael P.; Brun, Reto; Gilbert, Ian H.

CORPORATE SOURCE: Welsh School of Pharmacy, Cardiff University, Cardiff, CF10 3XF, UK

SOURCE: Journal of Medicinal Chemistry (2001), 44(21), 3440-3452

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:366327

AB The P2 transporter is a nucleoside transporter which is unique to the protozoan parasite Trypanosoma brucei, the causative organism of Human

African Trypanosomiasis. The transporter has been shown to bind some structural motifs not recognized by other transporters. In this paper we describe the use of the melamine motif, a substrate of the P2 transporter, as a potential tool to selectively deliver polyamine analogs to the parasites. The synthesis of a number of polyamine analogs attached to a variety of melamine analogs is described. Many of the compds. were shown to competitively inhibit uptake of adenosine, indicating that they are recognized by the transporter. Some of the compds. showed good in vitro activity against the parasites.

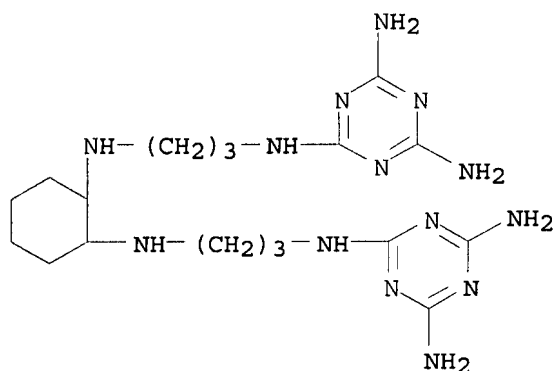
IT 374673-91-3P 374673-92-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation and structure activity relationships of s-triazine substituted polyamines as antitrypanosomal drugs)

RN 374673-91-3 CAPLUS

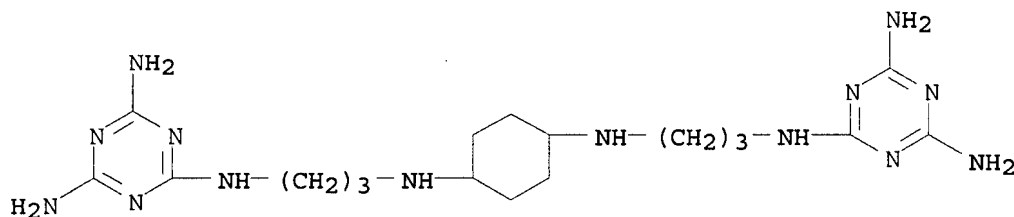
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-[1,2-cyclohexanediylbis(imino-3,1-propanediyl)]bis-, tetrahydrochloride (9CI) (CA INDEX NAME)



● 4 HCl

RN 374673-92-4 CAPLUS

CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-[1,4-cyclohexanediylbis(imino-3,1-propanediyl)]bis-, tetrahydrochloride (9CI) (CA INDEX NAME)



● 4 HCl

REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

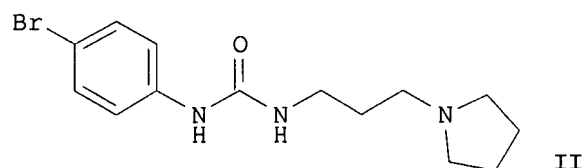
ACCESSION NUMBER: 2001:338479 CAPLUS

DOCUMENT NUMBER: 134:353175

TITLE: Preparation of amides and ureas as activators of

soluble guanylate cyclase  
 INVENTOR(S): Selwood, David; Glen, Robert; Reynolds, Karen;  
 Wishart, Grant  
 PATENT ASSIGNEE(S): University College London, UK  
 SOURCE: PCT Int. Appl., 101 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001032604	A1	20010510	WO 2000-GB4249	20001106
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2389773	A1	20010510	CA 2000-2389773	20001106
EP 1237849	A1	20020911	EP 2000-973061	20001106
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003513064	T	20030408	JP 2001-534758	20001106
PRIORITY APPLN. INFO.:			GB 1999-26286	A 19991105
			US 2000-201382P	P 20000502
			WO 2000-GB4249	W 20001106
OTHER SOURCE(S):			MARPAT 134:353175	
GI				

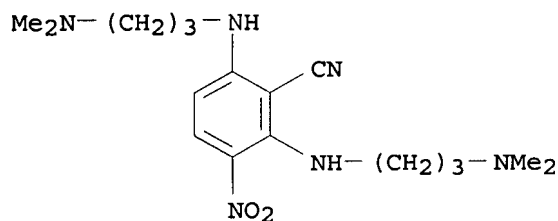


AB The title compds. R4PZNR1R2 [I; R1, R2 = alkyl; R1R2 together form alkylene; Z = alkylene; P = a direct bond, X, Y, W, XY, YW, XYW (wherein W = O, S, NR3; R3 = H, alkyl; Y = UV; V = a direct bond, alkylene; U = CS, CO, SO2, C(:NR); R = H, OH, alkyl; X = O, NR6; R6 = H, alkyl, alkenyl, etc.); R4 = alkyl, alkenyl, alkynyl, etc.], useful in the activation of soluble guanylate cyclase, were prepared E.g., synthesis of the urea II, starting with 4-bromoaniline and 1-(3-aminopropyl)pyrrolidine, was given. Biol. data for compds. I (e.g., IC50 for inhibition of platelet aggregation) were presented.

IT 338981-24-1P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of amides and ureas as activators of soluble guanylate cyclase)

RN 338981-24-1 CAPLUS

CN Benzonitrile, 2,6-bis[[3-(dimethylamino)propyl]amino]-3-nitro- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:156286 CAPLUS

DOCUMENT NUMBER: 134:326005

TITLE: Nitrile reduction in the presence of Boc-protected amino groups by catalytic hydrogenation over palladium-activated Raney-nickel

AUTHOR(S): Klenke, Burkhard; Gilbert, Ian H.

CORPORATE SOURCE: Welsh School of Pharmacy, Cardiff University, Cardiff, CF10 3XF, UK

SOURCE: Journal of Organic Chemistry (2001), 66(7), 2480-2483  
CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:326005

AB Nitriles NCCH<sub>2</sub>CH<sub>2</sub>NX-R-NXCH<sub>2</sub>CH<sub>2</sub>CN [R = (CH<sub>2</sub>)<sub>n</sub>, 1,2-cyclohexyl, 1,4-cyclohexyl, CHMeCH<sub>2</sub>, X = Boc, n = 4, 7, 9, 12; R = 1,2-Ph, 1,3-Ph, 1,4-Ph, X = H] are reduced to primary amines in the presence of N-tert-butoxycarbonyl (Boc) groups. E.g., NCCH<sub>2</sub>CH<sub>2</sub>N(Boc)(CH<sub>2</sub>)<sub>4</sub>N(Boc)CH<sub>2</sub>CH<sub>2</sub>CN in absolute ethanol and THF was stirred with a mixture of Pd/C and Raney nickel and sodium hydroxide; the mixture was shaken for 8 h under 45 psi of hydrogen and worked up to give H<sub>2</sub>N(CH<sub>2</sub>)<sub>3</sub>N(Boc)(CH<sub>2</sub>)<sub>4</sub>N(Boc)(CH<sub>2</sub>)<sub>3</sub>NH<sub>2</sub> in 84% yield. The reduction can be carried out under atmospheric H<sub>2</sub> pressure using com.

avail. catalysts. Both Boc groups and aromatic moieties present in the starting material are well tolerated under the mild optimized conditions.

IT 336881-15-3P 336881-16-4P

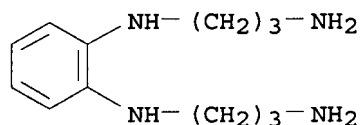
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of diamines by chemoselective reduction of nitriles in the presence

of Boc-amino and arylamino groups with palladium on carbon and Raney nickel as catalysts)

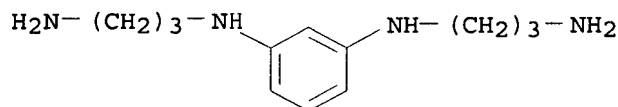
RN 336881-15-3 CAPLUS

CN 1,2-Benzenediamine, N,N'-bis(3-aminopropyl)- (9CI) (CA INDEX NAME)



RN 336881-16-4 CAPLUS

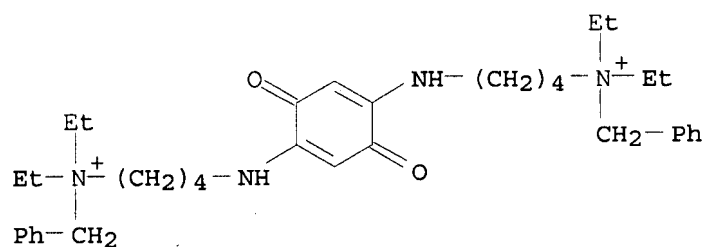
CN 1,3-Benzenediamine, N,N'-bis(3-aminopropyl)- (9CI) (CA INDEX NAME)



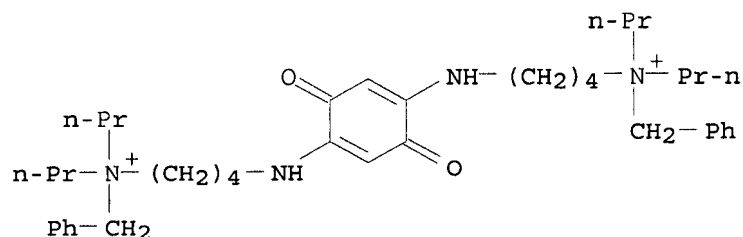
REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1955:43079 CAPLUS  
 DOCUMENT NUMBER: 49:43079  
 ORIGINAL REFERENCE NO.: 49:8332c-d  
 TITLE: Carboxy esters of di- and trimethylolbenzenes  
 INVENTOR(S): Ishii, Yoshiro; Yamashita, Yuya  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Unavailable  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 28005675	B4	19531102	JP	
AB	m-C <sub>6</sub> H <sub>4</sub> Me <sub>2</sub> 1 and CCl <sub>4</sub> 4 at 70° treated by passing in Cl gas while exposing it to sunlight until the increase in weight 0.3-0.6 is reached and the product distilled to obtain m-C <sub>6</sub> H <sub>4</sub> (CH <sub>2</sub> Cl) <sub>2</sub> (I) 0.8-1.3 part, b13 140°; I 1 and PrCO <sub>2</sub> Na 1.1 in BuOH heated 3-6 h. and the product distilled gave 1,3-C <sub>6</sub> H <sub>4</sub> (CH <sub>2</sub> OCOPr) <sub>2</sub> 1.2 parts, b5 170-85°. Similarly are prepared 1,3,6-MeC <sub>6</sub> H <sub>3</sub> (CH <sub>2</sub> OCOCH <sub>2</sub> CH <sub>2</sub> Ac) <sub>2</sub> , b5 170-230°; 1,3,4-C <sub>6</sub> H <sub>3</sub> (CH <sub>2</sub> OAc) <sub>3</sub> , b5 170-88°.				
IT	807299-34-9P, Ammonium, [2,5-p-benzoquinonylenebis(iminotetramethylene)]bis[benzyl-diethyl-chloride] 874520-58-8P, Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[benzyl-dipropyl-chloride] 875240-83-8P, Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[methyl-dipropyl-bromide] RL: PREP (Preparation) (preparation of)				
RN	807299-34-9 CAPLUS				
CN	[p-Benzoquinon-2,5-ylenebis(iminotetramethylene)]bis[benzyl-diethylammonium] (6CI) (CA INDEX NAME)				

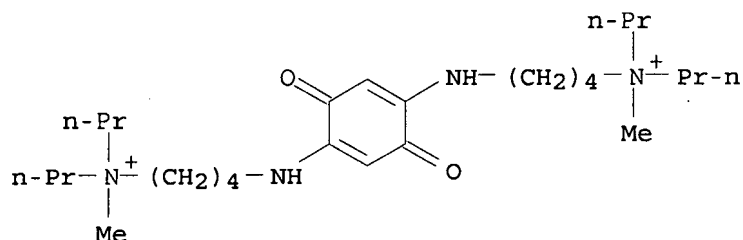


RN 874520-58-8 CAPLUS  
 CN Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[benzyl-dipropyl-chloride] (5CI) (CA INDEX NAME)



RN 875240-83-8 CAPLUS

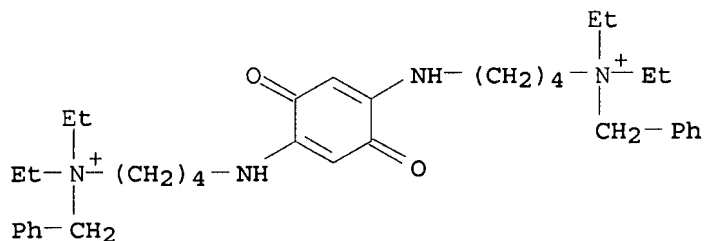
CN Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[methyldipropyl-bromide] (5CI) (CA INDEX NAME)



L6 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

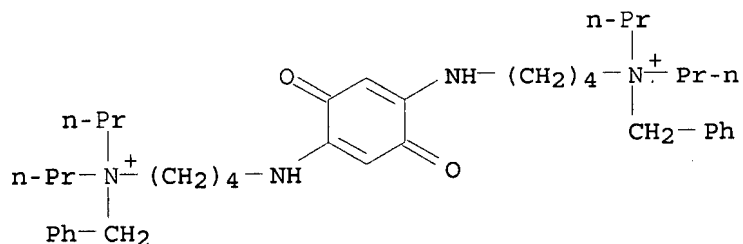
ACCESSION NUMBER: 1955:43078 CAPLUS  
 DOCUMENT NUMBER: 49:43078  
 ORIGINAL REFERENCE NO.: 49:8332c  
 TITLE: Alkylamino-p-benzoquinones  
 INVENTOR(S): Cavallito, Chester J.  
 PATENT ASSIGNEE(S): Sterling Drug Inc.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Unavailable  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 2701247		19550201	US	
AB	See Brit. 694,738 (C.A. 49, 4716a).				
IT	807299-34-9P, Ammonium, [2,5-p-benzoquinonylenebis(iminotetramethylene)]bis[benzyl-diethyl-chloride] 874520-58-8P, Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[benzyl-dipropyl-chloride] 875240-83-8P, Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[methyldipropyl-bromide] 875843-84-8P, p-Benzoquinone, 2,5-bis[3-(ethylmethylamino)-propylamino]- RL: PREP (Preparation) (preparation of)				
RN	807299-34-9 CAPLUS				
CN	[p-Benzoquinon-2,5-ylenebis(iminotetramethylene)]bis[benzyl-diethylammonium] (6CI) (CA INDEX NAME)				



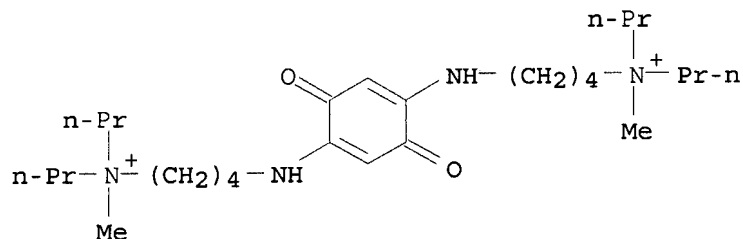
RN 874520-58-8 CAPLUS  
 CN Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[benzyl-dipropyl-chloride] (5CI) (CA INDEX NAME)





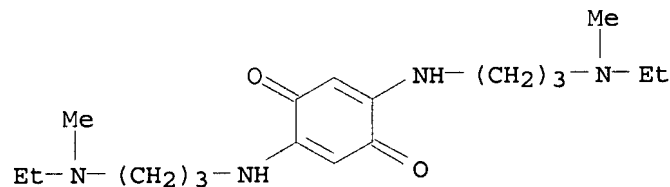
RN 875240-83-8 CAPLUS

CN Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[methyldipropyl-bromide] (5CI) (CA INDEX NAME)



RN 875843-84-8 CAPLUS

CN p-Benzoquinone, 2,5-bis[3-(ethylmethyldamino)-propylamino] - (5CI) (CA INDEX NAME)



L6 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1955:24130 CAPLUS  
DOCUMENT NUMBER: 49:24130  
ORIGINAL REFERENCE NO.: 49:4716a-g  
TITLE: Alkylamino-p-benzoquinones  
INVENTOR(S): Cavallito, Chester J.  
PATENT ASSIGNEE(S): Sterling Drug Inc.  
DOCUMENT TYPE: Patent  
LANGUAGE: Unavailable  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 694738		19530729	GB 1950-24128	19501003

AB Alkylamines with p-benzoquinones give alkylamino-p-quinones, which, when quaternized, are highly effective curarimetic agents. Thus, O was bubbled through a solution of 104 g. N,N-diethyl-1,3-diaminopropane (I) and 44 g. p-benzoquinone (II) in 500 mL. dioxane (III) for 20 h. Cooling in ice produced 35 g. 2,5-bis(3'-diethylaminopropylamino)-p-benzoquinone (IV), red crystals from EtOH, m. 122-4°; IV.2HCl, red powder, m. 250-1°. Refluxing 35 g. IV with 60 g. PhCH2Cl (V) in 500 mL. 95%

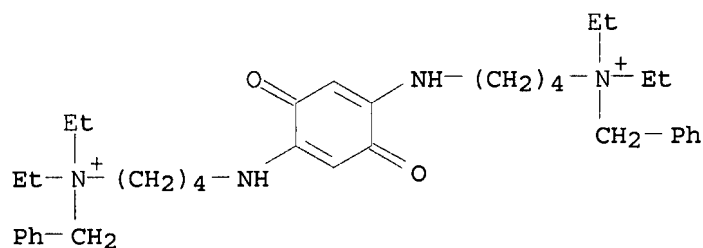
EtOH for 4 h., followed by cooling and addition of an equal volume of Et<sub>2</sub>O, produced a red oil which crystallized on standing and was collected, reprecipitated from EtOH with Et<sub>2</sub>O twice more, and dried at 80° yielding 51 g. IV.2PhCH<sub>2</sub>Cl, H<sub>2</sub>O-soluble orange-red solid, m. 191-5°. IV (5 g.) and 2 molar equivalents of MeBr in 100 mL. EtOH allowed to stand 2 h. at 25° formed a precipitate which, washed with III and dried at 80°, yielded 7.7 g. IV.2MeBr (VI), orange powder, m. 225°. Other compounds prepared in a similar manner were 2-(2'-diethylaminoethylamino)-p-benzoquinone (VII), orange crystals, m. 119° [VII.MeBr (VIII), m. 225° (decomposition)]; 2,5-bis(2'-diethylaminoethylamino)-p-benzoquinone (IX), m. 134-5° (from aqueous EtOH), [IX.2PhCH<sub>2</sub>Cl (X), H<sub>2</sub>O-soluble solid, m. 165-80°]; 2,5-bis[2'-(4''-morpholinyl)ethylamino]-p-benzoquinone (XI), orange crystals, m. 189-90° [XI.2MeBr (XII), m. 231-4° (decomposition)]; 2-(3'-dimethylaminopropylamino)-p-benzoquinone (XIII), m. 159-60°; 2-[3'-(1''-piperidyl)propylamino]-p-benzoquinone (XIV), red crystals, m. 200-1° (decomposition) [XIV.HCl (XV), light brown powder, m. 251-5°; XIV.MeBr (XVI), m. 255°]; 2-[N-3'-(1''-piperidyl)-propyl-N-methylamino]-p-benzoquinone (XVII), red platelets, m. 160-1° [XVII.HCl (XVIII), pink solid, m. 253-5° (decomposition)]; 2,5-bis(3'-dimethylaminopropylamino)-p-benzoquinone (XIX), red crystals, m. 125-6° [XIX.2PhCH<sub>2</sub>Cl.2H<sub>2</sub>O, m. 205-25°]; 2,5-bis(3'-di-n-propylaminopropylamino)-p-benzoquinone (XX), red crystals, m. 65-6° [XX.2PhCH<sub>2</sub>Cl (XXI), m.p. indefinite; XX.2MeBr (XXII), m. 202-4°]; 2,5-bis[3'-(1''-piperidyl)-propylamino]-p-benzoquinone (XXIII), orange-red crystals, m. 179-81° [XXIII.2MeBr (XXIV), m. 253° (decomposition)]; XXIII.2PhCH<sub>2</sub>Cl (XXV), m. 175-200°; 2,5-bis[N-3'-(1''-piperidyl)propyl-N-methylamino]-p-benzoquinone (XXVI), m. 117-18° [XXVI.2MeBr (XXVII), m. 245-50°]; 2,5-bis[3'-(4''-morpholinyl)-propylamino]-p-benzoquinone (XXVIII), m. 200° [XXVIII.2MeBr (XXIX), m. 248° (decomposition)]; 2-(4'-diethylaminobutylamino)-p-benzoquinone (XXX), m. 123-5° [XXX.MeBr (XXXI), m. 146-8°]; 2-(4'-diethylaminobutylamino)-5-methylamino-p-benzoquinone (XXXII), yellow solid, m. 103-6°; 2,5-bis(4'-diethylaminobutylamino)-p-benzoquinone (XXXIII), m. 105-6° [XXXIII.2MeBr (XXXIV), m. 229-30°; XXXIII.2PhCH<sub>2</sub>Cl (XXXV), red amorphous compound, m.p. indefinite]; 2,5-bis(5'-diethylaminoamylamino)-p-benzoquinone (XXXVI), m. 92-5° [XXXVI.2MeBr (XXXVII), m. 112-13°]; 2,5-bis[5'-(1''-piperidyl)amylamino]-p-benzoquinone (XXXVIII), [XXXVIII.2MeBr (XXXIX), m. 264-70°]; 2-(5'-diethylaminoamylamino)-p-benzoquinone (XL), m. 84-6° [XL.MeBr (XLI), m. about 113°]; 2-[5'-(1''-piperidyl)amylamino]-p-benzoquinone (XLII), m. 176-7°; 2,5-bis(3'-diethylaminopropylamino)-3,6-dichloro-p-benzoquinone (XLIII), bronze needles, m. 136-7°; [XLIII.2PhCH<sub>2</sub>Cl, dark brown powder, m.p. indefinite].

IT 807299-34-9P, Ammonium, [2,5-p-benzoquinonylenebis(iminotetramethylene)]bis[benzyl-diethyl-chloride] 874520-58-8P, Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[benzyl-dipropyl-chloride] 875240-83-8P, Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[methyl-dipropyl-bromide] 875843-84-8P, p-Benzoquinone, 2,5-bis[3-(ethylmethylamino)-propylamino] -  
RL: PREP (Preparation)

(preparation of)

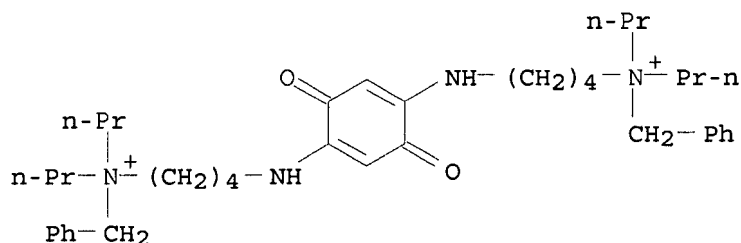
RN 807299-34-9 CAPLUS

CN [p-Benzoquinon-2,5-ylenebis(iminotetramethylene)]bis[benzyl-diethylammonium] (6CI) (CA INDEX NAME)



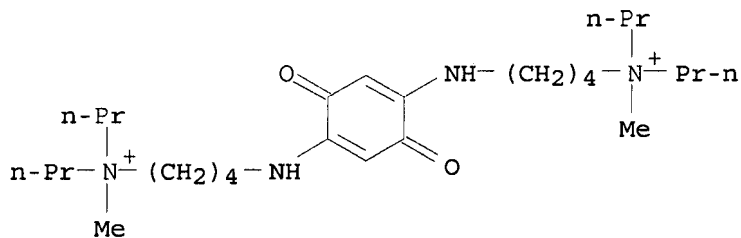
RN 874520-58-8 CAPLUS

CN Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[benzyldipropyl-chloride] (5CI) (CA INDEX NAME)



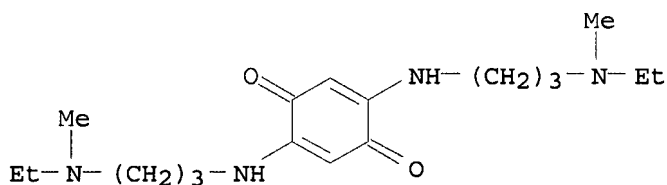
RN 875240-83-8 CAPLUS

CN Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[methyldipropyl-bromide] (5CI) (CA INDEX NAME)



RN 875843-84-8 CAPLUS

CN p-Benzoquinone, 2,5-bis[3-(ethylmethylamino)-propylamino] - (5CI) (CA INDEX NAME)



L6 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1952:62499 CAPLUS

DOCUMENT NUMBER: 46:62499

ORIGINAL REFERENCE NO.: 46:10463c-e

TITLE: Mytolon and related compounds as antagonists of acetylcholine on the heart of Venus mercenaria

AUTHOR(S): Luduena, F. P.; Brown, Theodore G., Jr.  
 CORPORATE SOURCE: Sterling-Winthrop Research Inst., Rensselaer, NY  
 SOURCE: Journal of Pharmacology and Experimental Therapeutics  
 (1952), 105, 232-9  
 CODEN: JPETAB; ISSN: 0022-3565  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

AB The acetylcholine (I) blocking effect of various ganglionic and neuromuscular blocking agents was determined on the isolated heart of the clam, Venus mercenaria. d-Tubocurarine, decamethonium, and dihydro- $\beta$ -erythroidine showed no I blocking activity at concns. as high as  $10^{-4}$ , and sparteine had little effect at this same concentration Et4NBr and various benzoquinone derivs. reduced, and at higher concns. blocked, the inhibitory effect of I. The most potent compound tested, 2,5-bis(diethylaminopropylamino)benzoquinone benzochloride (mytolon, WIN 2747), was about 1000 times as active as Et4NBr, and a number of its closely related 2,5-disubstituted homologs also showed high activity. No correlation was found between I blocking activity on the Venus heart and ganglionic, curarimimetic, or anticholinesterase activities.

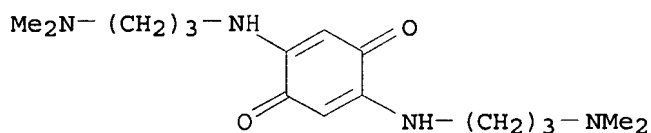
IT 854050-41-2, p-Benzoquinone, 2,5-bis(3-dimethylaminopropylamino)-, compound with benzyl chloride 854050-43-4, p-Benzoquinone, 2,5-bis(3-diethylaminopropylamino)-, methobromide 854050-44-5, p-Benzoquinone, 2,5-bis(5-diethylaminopentylamino)-, methobromide 854050-46-7, p-Benzoquinone, 2,5-bis(4-diethylaminobutylamino)-, methobromide 854051-49-3, p-Benzoquinone, 2,5-dichloro-3,6-bis(3-diethylaminopropylamino)-, compound with benzyl chloride (as antagonist of acetylcholine on heart)

RN 854050-41-2 CAPLUS

CN p-Benzoquinone, 2,5-bis(3-dimethylaminopropylamino)-, compd. with benzyl chloride (5CI) (CA INDEX NAME)

CM 1

CRN 107525-13-3  
 CMF C16 H28 N4 O2



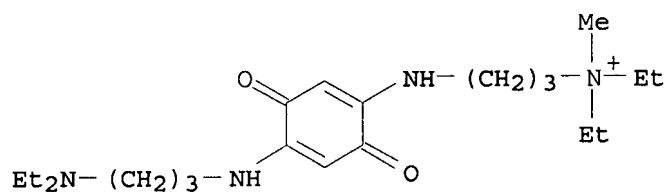
CM 2

CRN 100-44-7  
 CMF C7 H7 Cl

Ph-CH<sub>2</sub>-Cl

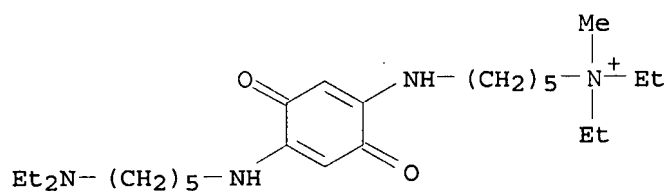
RN 854050-43-4 CAPLUS

CN p-Benzoquinone, 2,5-bis(3-diethylaminopropylamino)-, methobromide (5CI)  
 (CA INDEX NAME)



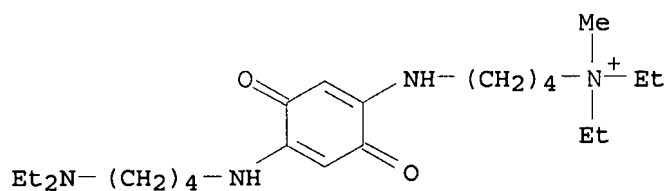
● Br<sup>-</sup>

RN 854050-44-5 CAPLUS  
 CN p-Benzoquinone, 2,5-bis(5-diethylaminopentylamino)-, methobromide (5CI)  
 (CA INDEX NAME)



● Br<sup>-</sup>

RN 854050-46-7 CAPLUS  
 CN p-Benzoquinone, 2,5-bis(4-diethylaminobutylamino)-, methobromide (5CI)  
 (CA INDEX NAME)

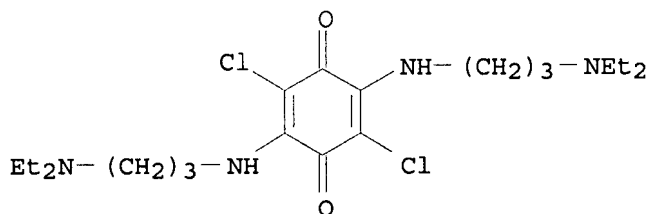


● Br<sup>-</sup>

RN 854051-49-3 CAPLUS  
 CN p-Benzoquinone, 2,5-dichloro-3,6-bis(3-diethylaminopropylamino)-, compd.  
 with benzyl chloride (5CI) (CA INDEX NAME)

CM 1

CRN 110437-13-3  
 CMF C20 H34 Cl2 N4 O2



CM 2

CRN 100-44-7  
CMF C7 H7 Cl

Ph-CH<sub>2</sub>-Cl

L6 ANSWER 13 OF 14 USPATFULL on STN  
ACCESSION NUMBER: 2002:280863 USPATFULL  
TITLE: SYNTHESIS OF NEW POLYNITRILES FROM CYCLOALIPHATIC VICINAL PRIMARY DIAMINES  
INVENTOR(S): Burdeniuc, Juan Jesus, Macungie, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002156315	A1	20021024
	US 6472553	B2	20021029
APPLICATION INFO.:	US 2002-123929	A1	20020417 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2001-774343, filed on 31 Jan 2001, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	AIR PRODUCTS AND CHEMICALS, INC., PATENT DEPARTMENT, 7201 HAMILTON BOULEVARD, ALLENTOWN, PA, 181951501		
NUMBER OF CLAIMS:	12		
EXEMPLARY CLAIM:	1		
LINE COUNT:	408		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB Compounds of the structure: ##STR1##

wherein R.sub.1 is H, a C1 to C4 alkyl, or a substituted C1 to C4 alkyl; R.sub.2 is H or a cyanoethyl; n is an integer of 1 to 4, and y is 1 or 2, and a method for making the compounds. The compounds are made by reacting acrylonitrile with one or more cycloaliphatic vicinal diamines in the presence of water and a catalytic amount of an acid catalyst having a pK.sub.a of -3.0 to 7.5.

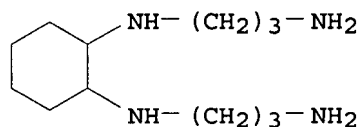
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 445270-40-6P

(preparation of)

RN 445270-40-6 USPATFULL

CN 1,2-Cyclohexanediamine, N,N'-bis(3-aminopropyl)-C-methyl- (9CI) (CA INDEX NAME)



D1- Me

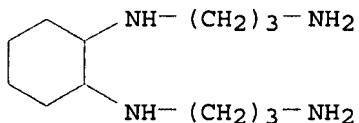
L6 ANSWER 14 OF 14 USPATFULL on STN  
 ACCESSION NUMBER: 2002:202287 USPATFULL  
 TITLE: Synthesis of new polynitriles from cycloaliphatic  
 vicinal primary diamines  
 INVENTOR(S): Burdeniuc, Juan Jesus, Macungie, PA, United States  
 PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., Allentown, PA, United  
 States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6433212	B1	20020813
APPLICATION INFO.:	US 2001-774343		20010131 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	McKane, Joseph K.		
ASSISTANT EXAMINER:	Shameem, Golam M M		
LEGAL REPRESENTATIVE:	Bongiorno, Mary E.		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)		
LINE COUNT:	361		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB Compounds of the structure: ##STR1##

wherein R.sub.1 is H, a C1 to C4 alkyl, or a substituted C1 to C4 alkyl;  
 R.sub.2 is H or a cyanoethyl; n is an integer of 1 to 4, and y is 1 or  
 2, and a method for making the compounds. The compounds are made by  
 reacting acrylonitrile with one or more cycloaliphatic vicinal diamines  
 in the presence of water and a catalytic amount of an acid catalyst  
 having a PK.sub.a of -3.0 to 7.5.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 IT 445270-40-6P  
 (preparation of)  
 RN 445270-40-6 USPATFULL  
 CN 1,2-Cyclohexanediamine, N,N'-bis(3-aminopropyl)-C-methyl- (9CI) (CA INDEX  
 NAME)



D1- Me

=> d his

(FILE 'HOME' ENTERED AT 10:25:45 ON 22 AUG 2007)

FILE 'REGISTRY' ENTERED AT 10:25:57 ON 22 AUG 2007

L1 STRUCTURE UPLOADED  
L2 0 S L1 FULL  
L3 STRUCTURE UPLOADED  
L4 177 S L3 FULL

FILE 'MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 10:28:46 ON 22 AUG 2007

L5 52 S L4  
L6 14 S L5 NOT PY>2003

=> file uspatfull  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
105.60	451.36

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-9.36	-9.36

CA SUBSCRIBER PRICE

FILE 'USPATFULL' ENTERED AT 10:34:15 ON 22 AUG 2007

CA INDEXING COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 21 Aug 2007 (20070821/PD)

FILE LAST UPDATED: 21 Aug 2007 (20070821/ED)

HIGHEST GRANTED PATENT NUMBER: US7260849

HIGHEST APPLICATION PUBLICATION NUMBER: US2007192920

CA INDEXING IS CURRENT THROUGH 21 Aug 2007 (20070821/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 21 Aug 2007 (20070821/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2007

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2007

=> s l4

L7 7 L4

=> d l7 1-7 ibib, abs, hitstr

L7 ANSWER 1 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2007:144173 USPATFULL

TITLE: Mixed cationic dyes comprising at least one anthraquinone chromophore and their use in methods of hair dyeing

INVENTOR(S): Daubresse, Nicolas, La Celle St. Cloud, FRANCE  
Greaves, Andrew, Montevrain, FRANCE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2007125261	A1	20070607
APPLICATION INFO.:	US 2006-510698	A1	20060828 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 2005-8793	20050826
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP, 901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US	
NUMBER OF CLAIMS:	67	
EXEMPLARY CLAIM:	1	
LINE COUNT:	2210	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
AB	Disclosed herein is a mixed cationic direct dye comprising at least one	



anthraquinone chromophore and at least one cationic chromophore chosen from cationic azo chromophores and cationic hydrazone chromophores, wherein the at least one anthraquinone chromophore is bound to the at least one cationic chromophore by means of at least one linkage. Also disclosed herein is a dyeing composition comprising at least one mixed cationic direct dye. Further disclosed herein is a method of dyeing of keratin fibers, for example, keratin fibers, comprising applying said dyeing composition to the keratin fibers. Still further disclosed herein is a multi-compartment kit comprising at least one compartment comprising at least one dye composition and at least one second compartment comprising at least one oxidizing agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 926290-28-0P 926290-29-1P 926290-33-7P

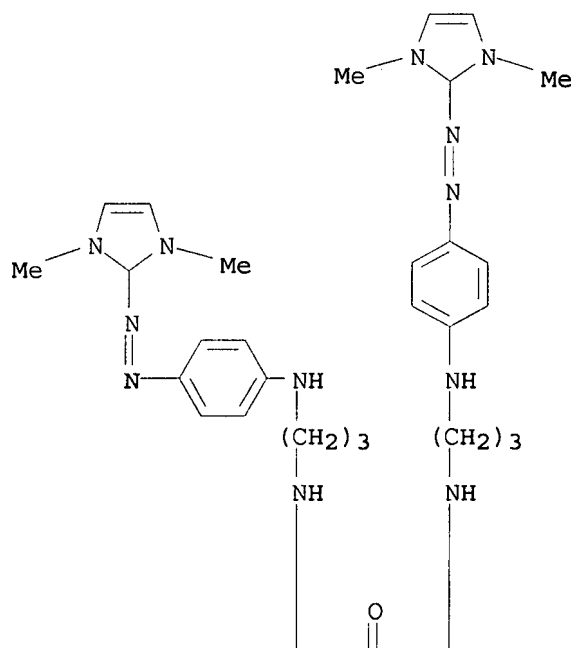
926290-35-9P 926290-40-6P

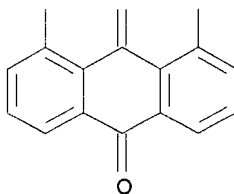
(cationic dyes having an anthraquinone and another chromophoric group for hair coloring with decreased color variation with age)

RN 926290-28-0 USPTAFULL

CN 1H-Imidazolium, 2,2'-[(9,10-dihydro-9,10-dioxo-1,8-anthracenediyl)bis(imino-3,1-propanediylimino-4,1-phenylene-2,1-diazenediyl)]bis[1,3-dimethyl-, chloride (1:2) (CA INDEX NAME)

PAGE 1-A





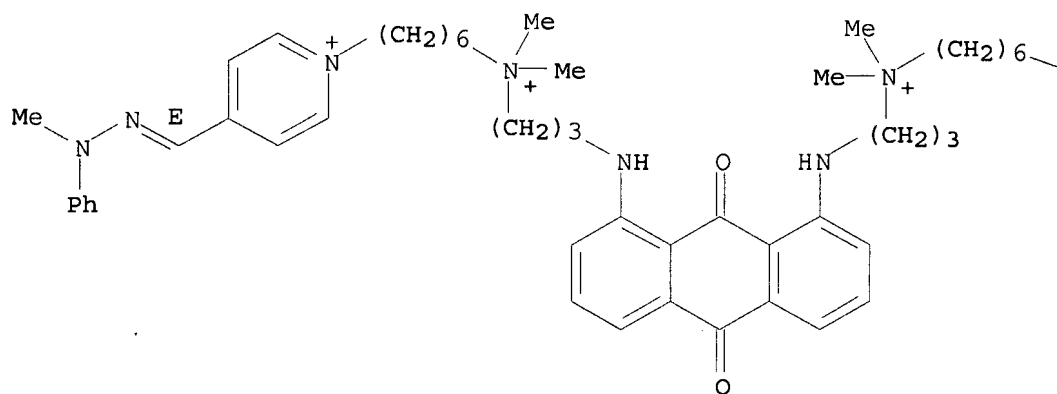
● 2 Cl<sup>-</sup>

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

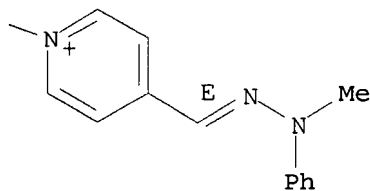
RN 926290-29-1 USPATFULL

CN Pyridinium, 1,1'-[(9,10-dihydro-9,10-dioxo-1,8-anthracenediyl)bis[imino-3,1-propanediyl(dimethyliminio)-6,1-hexanediyl]]bis[4-[(E)-(2-methyl-2-phenylhydrazinylidene)methyl]-, bromide (1:4) (CA INDEX NAME)

Double bond geometry as shown.

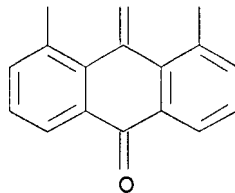
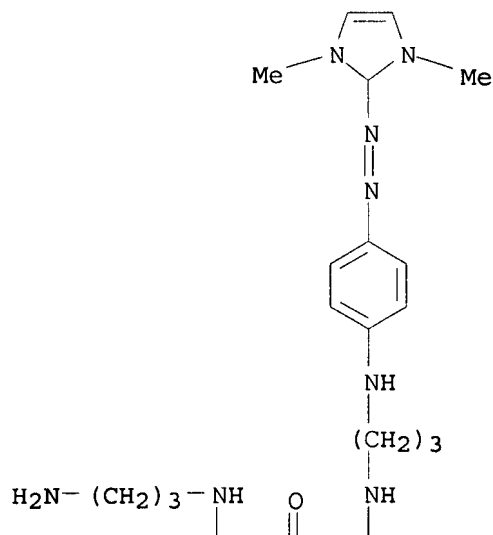


● 4 Br<sup>-</sup>



RN 926290-33-7 USPATFULL

CN 1H-Imidazolium, 2-[2-[4-[[3-[[8-[(3-aminopropyl)amino]-9,10-dihydro-9,10-dioxo-1-anthracenyl]amino]propyl]amino]phenyl]diazenyl]-1,3-dimethyl-, chloride (1:1) (CA INDEX NAME)



● Cl<sup>-</sup>

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

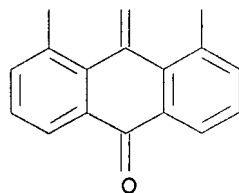
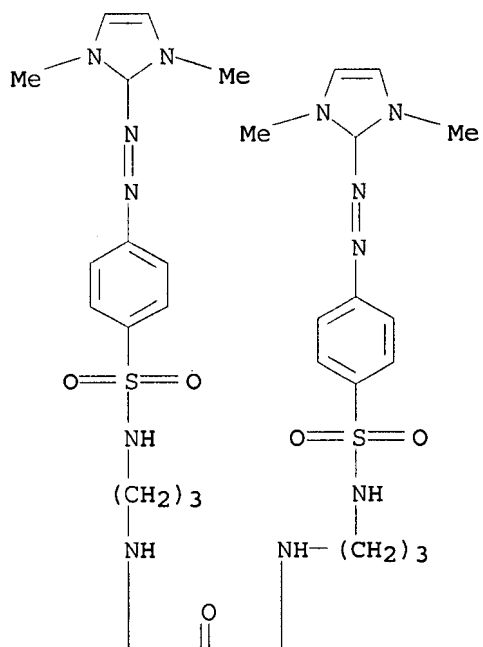
RN 926290-35-9 USPATFULL

CN 1H-Imidazolium, 2,2'-[(9,10-dihydro-9,10-dioxo-1,8-anthracenediyl)bis(imino-3,1-propanediyl)iminosulfonyl-4,1-phenylene-2,1-diazenediyl]]bis[1,3-dimethyl-, methyl sulfate (1:2) (CA INDEX NAME)

CM 1

CRN 926290-34-8

CMF C42 H46 N12 O6 S2



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

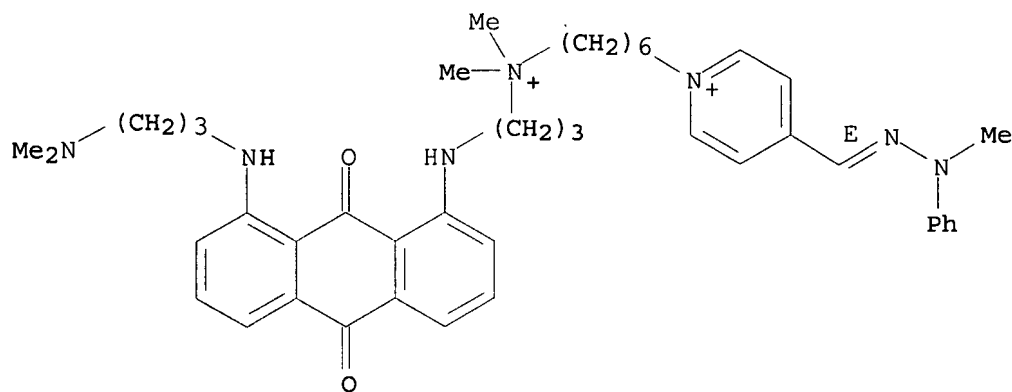
CM 2

CRN 21228-90-0  
CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

RN 926290-40-6 USPATFULL  
CN Pyridinium, 1-[6-[[3-[[8-[[3-(dimethylamino)propyl]amino]-9,10-dihydro-9,10-dioxo-1-anthracenyl]amino]propyl]dimethylammonio]hexyl]-4-[(E)-(2-methyl-2-phenylhydrazinylidene)methyl]-, bromide (1:2) (CA INDEX NAME)

Double bond geometry as shown.



● 2 Br<sup>-</sup>

L7 ANSWER 2 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2006:140001 USPATFULL

TITLE: Anthraquinone colorant compositions and methods for producing the same

INVENTOR(S): Hong, X. Michael, Greer, SC, UNITED STATES  
Mahaffey, Robert L., Spartanburg, SC, UNITED STATES  
Stephens, Eric B., Spartanburg, SC, UNITED STATES  
Vandahm, Richard A., Spartanburg, SC, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006117499	A1	20060608
APPLICATION INFO.:	US 2004-7453	A1	20041208 (11)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Terry T. Moyer, P.O. Box 1927, Spartanburg, SC, 29304, US		
NUMBER OF CLAIMS:	31		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Page(s)		
LINE COUNT:	721		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to compositions of N,N'-dialkyleneoxy-substituted 1,4-diaminoanthraquinone colorants which contain a low percentage of impurities, to a process to make the compositions, and also to the use of the compositions thus prepared for coloring consumer products.

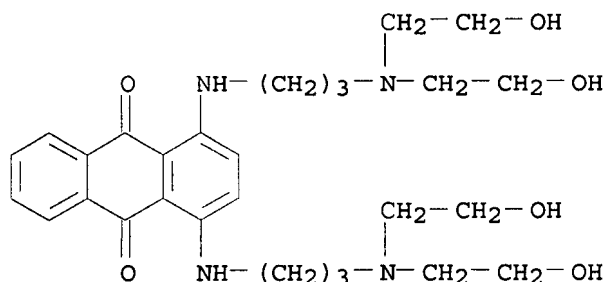
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 681810-39-9P

(polyoxyalkylene amine-substituted anthraquinone colorant compns. with low impurity content)

RN 681810-39-9 USPATFULL

CN 9,10-Anthracenedione, 1,4-bis[[3-[bis(2-hydroxyethyl)amino]propyl]amino] - (9CI) (CA INDEX NAME)



L7 ANSWER 3 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2005:299676 USPATFULL

TITLE: 2,5-Bis-diamine-'1,4! benzoquinone derivatives, for the treatment of alzheimer's disease a process for their preparation and intermediates therefor

INVENTOR(S): Andrisano, Vincenza, Bologna, ITALY  
 Bartolini, Manuela, Mondolfo, ITALY  
 Bolognesi, Maria Laura, Bologna, ITALY  
 Cavalli, Andrea, San Lazzaro Di Savena, ITALY  
 Melchiorre, Carlo, Bologna, ITALY  
 Recanatini, Maurizio, Bologna, ITALY

PATENT ASSIGNEE(S): ALMA MATER STUDIORUM-UNIVERSITA' DI BOLOGNA, Bologna, ITALY, I-40126 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005261345	A1	20051124
APPLICATION INFO.:	US 2003-510833	A1	20030411 (10)
	WO 2003-IT227		20030411
			20050623 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	IT 2002-BO198	20020412
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747, US	
NUMBER OF CLAIMS:	47	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	6 Drawing Page(s)	
LINE COUNT:	1862	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB 2,5-bis-diamine-[1,4]benzoquinonic derivatives, having a general formula (I) have proved useful for the treatment of Alzheimer's disease; a method for preparing them and intermediates used in said method are also described. ##STR1##

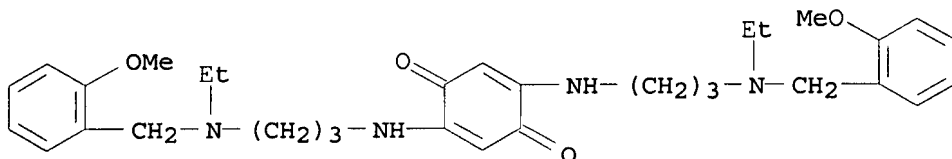
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 616885-83-7P, 2,5-Bis[[3-[ethyl(2-methoxybenzyl)amino]propyl]amino]-[1,4]benzoquinone 616885-87-1P, 2,5-Bis[[6-[ethyl(2-methoxybenzyl)amino]hexyl]amino]-[1,4]benzoquinone 616885-89-3P, 2,5-Bis[[6-(benzylethylamino)hexyl]amino]-[1,4]benzoquinone 616885-90-6P, 2,5-Bis[[6-[ethyl(2-chlorobenzyl)amino]hexyl]amino]-[1,4]benzoquinone 616885-91-7P, 2,5-Di-tert-butyl-3,6-bis[[3-ethyl(2-methoxybenzyl)amino]propyl]amino]-[1,4]benzoquinone 616886-00-1P, 2,5-Bis[[6-[ethyl(2-nitrobenzyl)amino]hexyl]amino]-[1,4]benzoquinone 616886-04-5P, 2,5-Bis[[6-[ethyl(3-methoxybenzyl)amino]hexyl]amino]-[1,4]benzoquinone 616886-08-9P, 2,5-Bis[[6-[ethyl(4-methoxybenzyl)amino]hexyl]amino]-[1,4]benzoquinone 616886-12-5P, 2,5-Bis[[6-[ethyl(furan-2-

ylmethyl)amino]hexyl]amino] - [1,4]benzoquinone 616886-20-5P,  
 2,5-Bis[[6-(2-methoxybenzylamino)hexyl]amino] - [1,4]benzoquinone  
 616886-23-8P, 2,5-Bis[[6-[N-(2-methoxybenzyl)-N-  
 methylamino]hexyl]amino] - [1,4]benzoquinone 616886-24-9P,  
 2,5-Bis[[6-[ethyl(2-methoxybenzyl)amino]hexyl]amino] - 3,6-dimethyl-  
 [1,4]benzoquinone  
 (preparation of diamine-[1,4]benzoquinone derivs. for treatment of  
 Alzheimer's disease and pathologies characterized by deposits of  
 $\beta$ -amyloid protein in mammals)

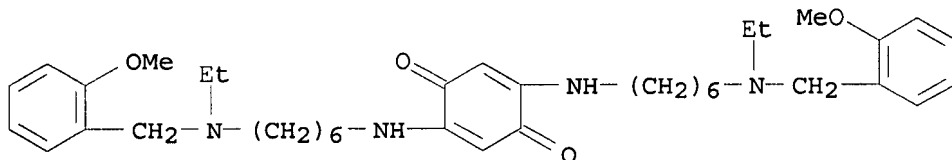
RN 616885-83-7 USPATFULL

CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[3-[ethyl[(2-  
 methoxyphenyl)methyl]amino]propyl]amino] - (9CI) (CA INDEX NAME)



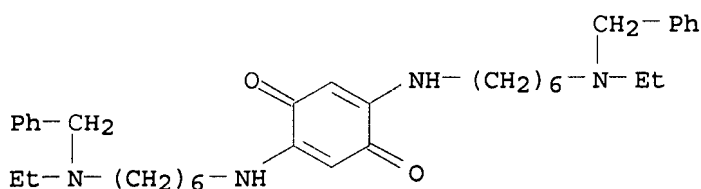
RN 616885-87-1 USPATFULL

CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[ethyl[(2-  
 methoxyphenyl)methyl]amino]hexyl]amino] - (CA INDEX NAME)



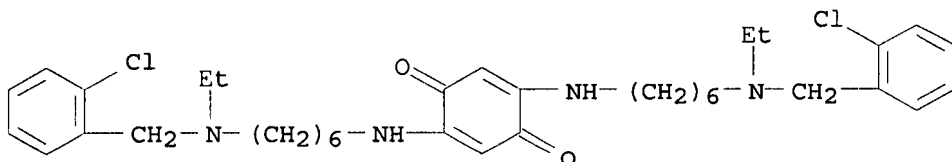
RN 616885-89-3 USPATFULL

CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[ethyl(phenylmethyl)amino]hexyl]a  
 mino] - (9CI) (CA INDEX NAME)



RN 616885-90-6 USPATFULL

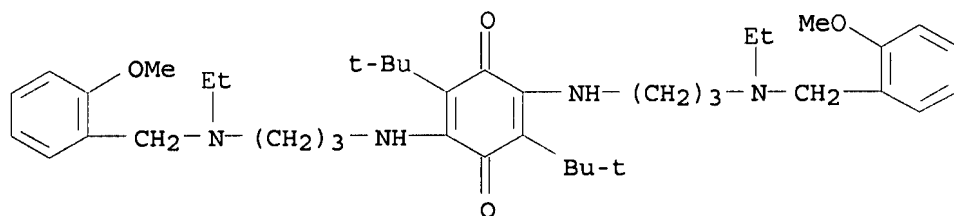
CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[[[(2-  
 chlorophenyl)methyl]ethylamino]hexyl]amino] - (9CI) (CA INDEX NAME)



RN 616885-91-7 USPATFULL

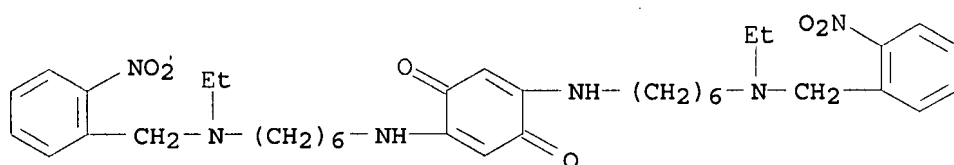
CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis(1,1-dimethylethyl)-3,6-bis[[3-  
 [ethyl[(2-methoxyphenyl)methyl]amino]propyl]amino] - (9CI) (CA INDEX

NAME)



RN 616886-00-1 USPATFULL

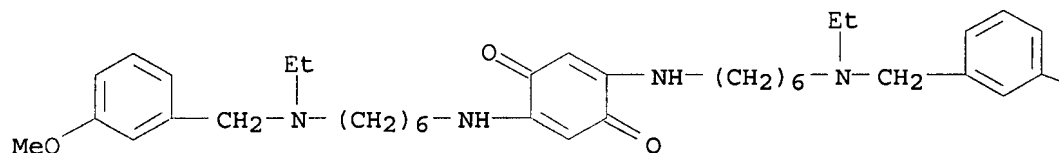
CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[ethyl[(2-nitrophenyl)methyl]amino]hexyl]amino] - (9CI) (CA INDEX NAME)



RN 616886-04-5 USPATFULL

CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[ethyl[(3-methoxyphenyl)methyl]amino]hexyl]amino] - (9CI) (CA INDEX NAME)

PAGE 1-A



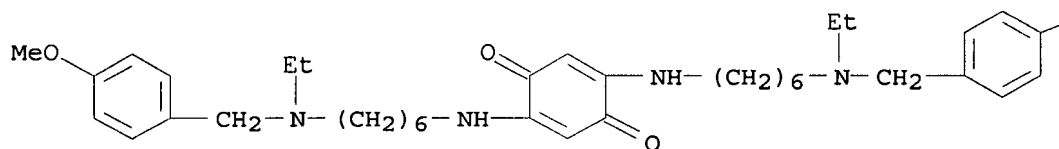
PAGE 1-B

OMe

RN 616886-08-9 USPATFULL

CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[ethyl[(4-methoxyphenyl)methyl]amino]hexyl]amino] - (9CI) (CA INDEX NAME)

PAGE 1-A

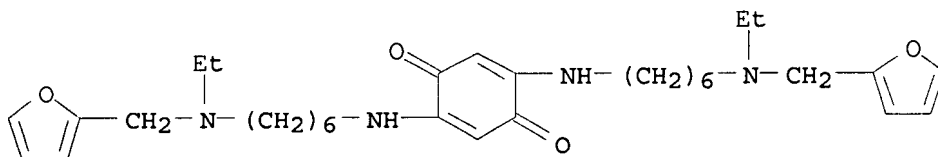




— OMe

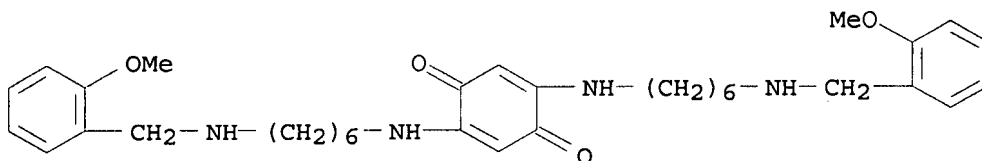
RN 616886-12-5 USPATFULL

CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[ethyl(2-furanylmethyl)amino]hexyl]amino] - (9CI) (CA INDEX NAME)



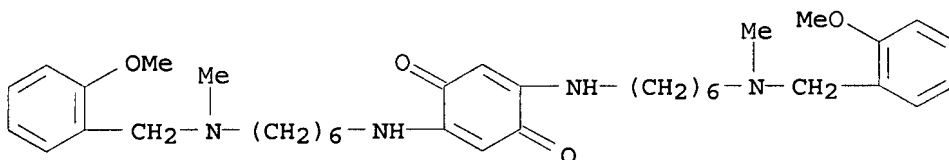
RN 616886-20-5 USPATFULL

CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[[[2-methoxyphenyl)methyl]amino]hexyl]amino] - (9CI) (CA INDEX NAME)



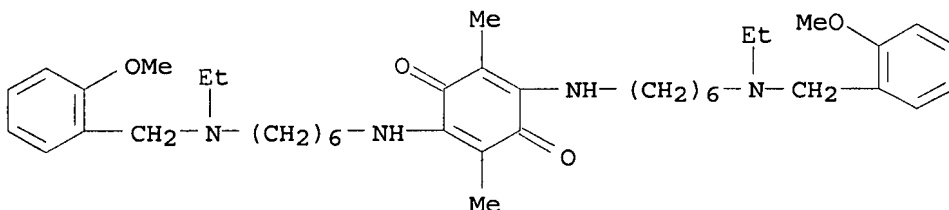
RN 616886-23-8 USPATFULL

CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[[[2-methoxyphenyl)methyl]methyamino]hexyl]amino] - (9CI) (CA INDEX NAME)



RN 616886-24-9 USPATFULL

CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[ethyl[[2-methoxyphenyl)methyl]amino]hexyl]amino]-3,6-dimethyl- (9CI) (CA INDEX NAME)



L7 ANSWER 4 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2005:11789 USPATFULL

TITLE: Synthesis and pharmaceuticals of novel bis-substituted

anthraquinone derivatives  
INVENTOR(S): Huang, Hsu-Shan, Taipei, TAIWAN, PROVINCE OF CHINA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005009924	A1	20050113
APPLICATION INFO.:	US 2003-615695	A1	20030708 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	STEPHEN M. NIPPER, DYKAS, SHAVER & NIPPER, LLP, P.O. BOX 877, Boise, ID, 83107-0877		
NUMBER OF CLAIMS:	25		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	8 Drawing Page(s)		
LINE COUNT:	2583		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to novel anthraquinone compounds useful in the treatment of allergic, inflammatory conditions, antioxidant, tumor condition, stem cell application, tissue engineering, applied in treating age-associate tissue degeneration, reverse organ failure in chronic high-turnover disease and therapeutic compositions containing such compounds. The compounds of the present invention are 1,4-, 1,5- and 1,8-difunctionalized anthraquinones or analogs thereof. According to the practice of the invention, there are provided bis-symmetrical substituted anthraquinone compounds according to formula I: ##STR1##

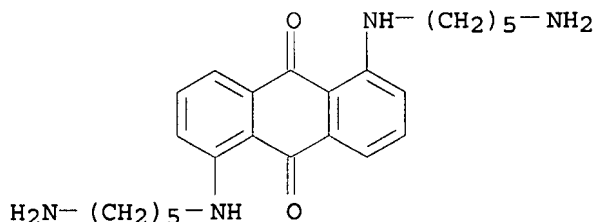
wherein R1, R2, R3 and R4 present a straight, aminoalkylamino side chains or branched chain alkyl group having 1 to 6 carbons which may be substituted with one or more groups of R5, or R1, R2, R3 and R4 present phenyl or benzyl which may be substituted with one or two groups of R6; wherein R5 is selected from the group consisting of halogen, --RNH.sub.2, --RNH.sub.2R, --ROH, --NO.sub.2, --OCH.sub.3, --OCH.sub.2CH.sub.3, and --OCH.sub.2CH.sub.2CH.sub.3; and wherein R6 is selected from the group consisting of a straight or branched chain alkyl group having 1 to 4 carbons, halogen, --RNH.sub.2, --RNH.sub.2R, --ROH, --NO.sub.2, --OCH.sub.3, --OCH.sub.2CH.sub.3, --OCH.sub.2CH.sub.2CH.sub.3, --CH.sub.2Br, --CH.sub.2Cl, --CH.sub.2OH, --C(CH.sub.3).sub.3, --(CH.sub.2).sub.2OH, --(CH.sub.2).sub.3OH, --(CH.sub.2).sub.4OH, --CH.sub.2NH.sub.2, --(CH.sub.2).sub.2NH.sub.2, --(CH.sub.2).sub.3NH.sub.2, --(CH.sub.2).sub.4NH.sub.2, --(CH.sub.2).sub.5NH.sub.2, --CH.sub.2N(CH.sub.3).sub.2, --(CH.sub.2).sub.2N(CH.sub.3).sub.2, --(CH.sub.2).sub.2NH(CH.sub.2).sub.2OH, --(CH.sub.2).sub.3NH(CH.sub.2).sub.2OH, --CH.sub.2CH(CH.sub.3).sub.2, --CHCl.sub.2, --CH(CH.sub.3)Cl, --(CH.sub.2).sub.2Cl, --(CH.sub.2).sub.3Cl, --(CH.sub.2).sub.3Br, --(CH.sub.2).sub.4Br, and --(CH.sub.2).sub.4Cl.

Chart 1. Activation of hTERT promoter-driven SEAP expression by c-Myc. About 1+10<sup>7</sup> hTERT-BJ1 cells were transfected with 13.5 µg each of plasmid pSEAP or pPhTERT-SEAP and of plasmid pMT2T or pMT2T-cMyc by electroporation. After 24 h, viable cells were harvested, and reinoculated at a density of 3+10<sup>5</sup>/mL, and the SEAP activity after 24 h at 37 °C. The transfection efficiency of each experiment was determined by cotransfection with 1.5 µg of plasmid pCMVβ. The values were determined from three experiments. P<0.05 is presented by an asterisk.

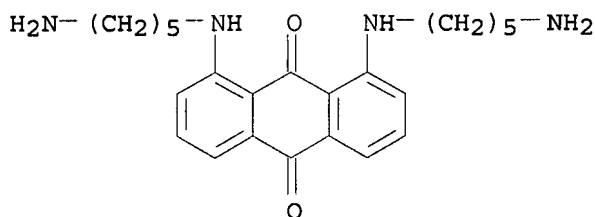
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 719306-63-5P, 1,5-Bis[(5-aminopentyl)amino]-9,10-anthracenedione  
824951-74-8P, 1,8-Bis[(5-aminopentyl)amino]-9,10-anthracenedione  
(preparation of bis-substituted -9,10-anthracenedione derivs. as anticancer, antiinflammatory, antioxidant, anti-psoriatic agents or for stem cell or tissue engineering application)  
RN 719306-63-5 USPTFULL

CN 9,10-Anthracenedione, 1,5-bis[(5-aminopentyl)amino] - (9CI) (CA INDEX NAME)



RN 824951-74-8 USPATFULL  
CN 9,10-Anthracenedione, 1,8-bis[(5-aminopentyl)amino] - (9CI) (CA INDEX NAME)



L7 ANSWER 5 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2004:233893 USPATFULL

TITLE: Compounds used to treat alcoholism

INVENTOR(S): Bilbeny Lojo, Norberto, Santiago de Chile, CHILE  
Garcia Madrid, Hernan, Santiago de Chile, CHILE  
Font Arellano, Maria Belen, Pamplona, SPAIN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004180967	A1	20040916
	US 7026514	B2	20060411
APPLICATION INFO.:	US 2004-482708	A1	20040105 (10)
	WO 2002-ES323		20020701

	NUMBER	DATE
PRIORITY INFORMATION:	ES 2001-1642	20010705
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., SUITE 800, WASHINGTON, DC, 20037	
NUMBER OF CLAIMS:	10	
EXEMPLARY CLAIM:	1	
LINE COUNT:	381	

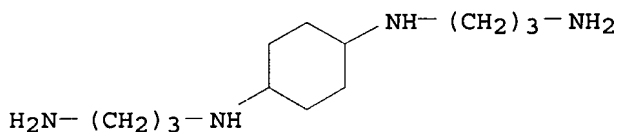
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB N,N'-bis(3-aminopropyl)cyclohexane-1,4-diamine, of formula (I), is a new compound that is prepared by hydrogenation with Raney nickel catalyst of N,N'-bis(2-cyanoethyl)-cyclohexane-1,4-diamine, the latter being prepared by reaction between 1,4-cyclohexanediamine and acrylonitrile. The oral administration to genetically alcoholic rats (from the strain UCHB of the University of Chile) of the tetrametanesulfonate monohydrate of (I) causes a significant reduction in the alcohol consumption. The activity lasts for some time after the treatment period. Besides, there is a virtually null disulfiram-like adverse effect, what constitutes an advantage over the unpleasant use of some anti-alcoholism agents, such

as calcium cyanamide or disulfiram itself. Therefore, the compounds of the invention are useful for the preparation of medicaments for the therapeutic and/or prophylactic treatment of alcoholism in mammals, including human beings. ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

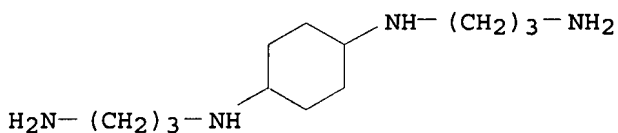
IT 484670-29-3P, N,N'-Bis(3-aminopropyl)cyclohexane-1,4-diamine  
 484670-30-6P, N,N'-Bis(3-aminopropyl)cyclohexane-1,4-diamine  
 tetramethanesulfonate 484670-31-7P, N,N'-Bis(3-aminopropyl)cyclohexane-1,4-diamine tetramethanesulfonate monohydrate  
 (drug candidate; preparation of bis(aminopropyl)cyclohexanediamine and  
 derivs. for treatment of alcoholism without disulfiram-type side  
 effects)  
 RN 484670-29-3 USPATFULL  
 CN 1,4-Cyclohexanediamine, N,N'-bis(3-aminopropyl)- (9CI) (CA INDEX NAME)



RN 484670-30-6 USPATFULL  
 CN 1,4-Cyclohexanediamine, N,N'-bis(3-aminopropyl)-, tetramethanesulfonate  
 (9CI) (CA INDEX NAME)

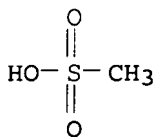
CM 1

CRN 484670-29-3  
 CMF C12 H28 N4



CM 2

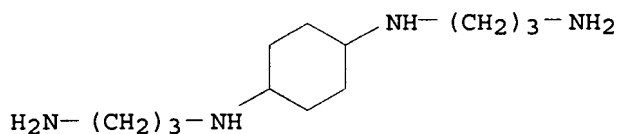
CRN 75-75-2  
 CMF C H4 O3 S



RN 484670-31-7 USPATFULL  
 CN 1,4-Cyclohexanediamine, N,N'-bis(3-aminopropyl)-, tetramethanesulfonate,  
 monohydrate (9CI) (CA INDEX NAME)

CM 1

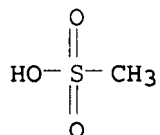
CRN 484670-29-3  
 CMF C12 H28 N4



CM 2

CRN 75-75-2

CMF C H4 O3 S



L7 ANSWER 6 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2002:280863 USPATFULL

TITLE: SYNTHESIS OF NEW POLYNITRILES FROM CYCLOALIPHATIC VICINAL PRIMARY DIAMINES

INVENTOR(S): Burdeniuc, Juan Jesus, Macungie, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002156315	A1	20021024
	US 6472553	B2	20021029
APPLICATION INFO.:	US 2002-123929	A1	20020417 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2001-774343, filed on 31 Jan 2001, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	AIR PRODUCTS AND CHEMICALS, INC., PATENT DEPARTMENT, 7201 HAMILTON BOULEVARD, ALLENTOWN, PA, 181951501		
NUMBER OF CLAIMS:	12		
EXEMPLARY CLAIM:	1		
LINE COUNT:	408		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			
AB	Compounds of the structure: ##STR1##		

wherein R.sub.1 is H, a C1 to C4 alkyl, or a substituted C1 to C4 alkyl; R.sub.2 is H or a cyanoethyl; n is an integer of 1 to 4, and y is 1 or 2, and a method for making the compounds. The compounds are made by reacting acrylonitrile with one or more cycloaliphatic vicinal diamines in the presence of water and a catalytic amount of an acid catalyst having a pK.sub.a of -3.0 to 7.5.

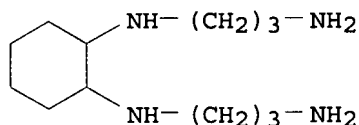
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 445270-40-6P

(preparation of)

RN 445270-40-6 USPATFULL

CN 1,2-Cyclohexanediamine, N,N'-bis(3-aminopropyl)-C-methyl- (9CI) (CA INDEX NAME)



D1- Me

L7 ANSWER 7 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2002:202287 USPATFULL

TITLE: Synthesis of new polynitriles from cycloaliphatic vicinal primary diamines

INVENTOR(S): Burdeniuc, Juan Jesus, Macungie, PA, United States

PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., Allentown, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6433212	B1	20020813
APPLICATION INFO.:	US 2001-774343		20010131 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	McKane, Joseph K.		
ASSISTANT EXAMINER:	Shameem, Golam M M		
LEGAL REPRESENTATIVE:	Bongiorno, Mary E.		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)		
LINE COUNT:	361		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds of the structure: ##STR1##

wherein R.sub.1 is H, a C1 to C4 alkyl, or a substituted C1 to C4 alkyl; R.sub.2 is H or a cyanoethyl; n is an integer of 1 to 4, and y is 1 or 2, and a method for making the compounds. The compounds are made by reacting acrylonitrile with one or more cycloaliphatic vicinal diamines in the presence of water and a catalytic amount of an acid catalyst having a PK.sub.a of -3.0 to 7.5.

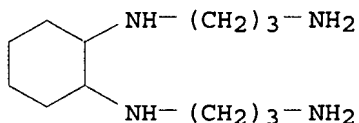
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 445270-40-6P

(preparation of)

RN 445270-40-6 USPATFULL

CN 1,2-Cyclohexanediamine, N,N'-bis(3-aminopropyl)-C-methyl- (9CI) (CA INDEX NAME)



D1- Me

=> d his

(FILE 'HOME' ENTERED AT 10:25:45 ON 22 AUG 2007)

FILE 'REGISTRY' ENTERED AT 10:25:57 ON 22 AUG 2007

L1               STRUCTURE UPLOADED  
L2               0 S L1 FULL  
L3               STRUCTURE UPLOADED  
L4               177 S L3 FULL

FILE 'MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 10:28:46 ON 22 AUG 2007

L5               52 S L4  
L6               14 S L5 NOT PY>2003

FILE 'USPATFULL' ENTERED AT 10:34:15 ON 22 AUG 2007

L7               7 S L4

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	79.98	531.34
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-9.36

STN INTERNATIONAL LOGOFF AT 10:48:46 ON 22 AUG 2007